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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR			ATTORNEY DOCKET NO.
09/523,237	03/10/00	BECKER		M	GP068-03.CN1
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021365 GEN PROBE 1	HM22/0619 D		SHIBUYA,M		
10210 GENETIC CENTER DRIVE				ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks



Office Action Summary

Application No.

Applicant(s)

09/523,237

BECKER ET AL.

Examiner

Mark L. Shibuya

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		Mark E. Ombaya				
	The MAILING DATE of this communication appears	on the cover sheet with the corres	pondence address			
A SHO THE M - Exten aft - If the be - If NO coi - Failur - Any r	or Reply DRTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 Cf ter SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely. period for reply is specified above, the maximum statutory period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by reply received by the Office later than three months after the rned patent term adjustment. See 37 CFR 1.704(b).	TO EXPIRE3 MONTHER 1.136 (a). In no event, however, relation. In a reply within the statutory minimum period will apply and will expire SIX (6) a statute, cause the application to become	H(S) FROM may a reply be timely filed n of thirty (30) days will 6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133).			
Status 1) 💢	Responsive to communication(s) filed on Apr 6, 20	001				
2a) 💢	This action is FINAL . 2b) ☐ This act	tion is non-final.				
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
-	tion of Claims					
4) 💢	Claim(s) <u>422-441</u>	is/are	e pending in the application.			
4	a) Of the above, claim(s)	is/ar	re withdrawn from consideration.			
5) 🗆	Claim(s)		is/are allowed.			
6) 💢	Claim(s) 422-441		is/are rejected.			
7) 🗆	Claim(s)		is/are objected to.			
8) 🗆	Claims	are subject to restric	ction and/or election requirement.			
Applica	ation Papers					
9) \square The specification is objected to by the Examiner.						
10) 🗆	The drawing(s) filed on is/are					
	The proposed drawing correction filed on		b)∟ disapproved.			
12)	The oath or declaration is objected to by the Exam	niner.				
13) 🗆 a) 🖸	Acknowledgement is made of a claim for foreign part of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have application from the International Bure of the attached detailed Office action for a list of the Acknowledgement is made of a claim for domestice.	ve been received. ve been received in Application I documents have been received in eau (PCT Rule 17.2(a)). he certified copies not received.	No n this National Stage			
Attachm	nent(s)					
	Notice of References Cited (PTO-892)	18) Interview Summary (PTO-413) Pape	or No(s)			
	Notice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application	n (PTO-152)			
17) 🔲 lr	nformation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

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DETAILED ACTION

Response to Arguments

1. The applicants' response filed 4/6/01, has been considered. Rejections and/or objections not reiterated from the previous office action mailed 1/18/01, are hereby withdrawn. The following rejections and/or objections are either newly applied or are reiterated and are the only rejections and/or objections presently applied to the instant application.

Double Patenting

- 2. Claims 422-441 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 444-465 of copending Application No. 09/565,427. This rejection is maintained for the reasons of record as set forth in the previous Office action.
 - a. Applicant acknowledges and does not traverse the rejection.

Claim Rejections - 35 U.S.C. § 102

- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 422, 427-431, 433-441 are rejected under 35 U.S.C. 102(e) as being anticipated by Van Gemen et al., Patent No. 5,679,553. This rejection is maintained for the reasons of record as set forth in the previous Office action.
- a. Applicant argues that the reference of Van Gemen et al. does not suggest modifying primers to include 2'-O-methyl substitutions, and that Van Gemen et al. directs use of detection

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and capture oligonucleotides modified to prevent their degradation by a nuclease in a sample following amplification.

b. Applicant's arguments have been considered but are not deemed persuasive. The claims are drawn to a kit that comprises an oligonucleotide with at least one 2'-O-methyl modification and written instructions for an amplification procedure. Applicant does not argue that Van Gemen et al. fails to disclose an oligonucleotide containing a 2'-O-methyl modification, but does argue that said modified oligonucleotide is not a primer. However, applicant does not point to any structural requirements for a primer of the claimed invention, that the oligonucleotide of Van Gemen et al. does not fulfill. In other words, there is no difference between the modified oligonucleotide as taught by Van Gemen et al. and an oligonucleotide primer of the claimed invention, other than the use to which the modified oligonucleotide will be put. Any 2'-O-methyl containing oligonucleotide, which is known in the art to be complementary to another sequence, could be packaged in applicant's kit for amplification, with instructions for use, and thereby be encompassed by applicant's claims. Something which is old does not become patentable upon the discovery of a new property. MPEP 2112.

Furthermore, the claim limitations of a kit, which is a product, and instructions for amplification, are not given patentable weight. Being in a kit with instructions is not necessary for using the oligonucleotide primers of the claimed invention. Neither the kit, nor the instruction, are disclosed as limitations to the nucleotide sequence or molecular structure of the modified oligonucleotides. One of ordinary skill in the art would understand, based upon the specification,

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that the container of the kit, any other unclaimed reagents in the kit, and the instructions for use, could be thrown away, with only the modified oligonucleotides saved for use in a hybridization of some sort, because the "kit" and the "instructions" are not necessarily or actually employed in a use of the modified oligonucleotides. The "kit" and the "instructions" do not distinguish, imply or change the structure of the claimed primers such that the modified oligonucleotides of Van Gemen et al. could not be used in the claimed invention. Applicant cannot expect to encompass the modified oligonucleotides of Van Gemen et al., or any 2'-O-modified antisense (*i.e.*, complementary) oligonucleotide, simply by claiming them as part of an amplification "kit" with "instructions" for amplification.

The rejection is maintained.

Claim Rejections - 35 U.S.C. § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 423-426 are rejected under 35 U.S.C. 103(a) as being unpatentable over Van Gemen et al., Patent No. 5,679,553. This rejection is maintained for the reasons of record as set forth in the previous Office action.
- a. Applicant argues that the reference of Van Gemen et al. does not disclose or suggest 2'-O-methyl modified primers and that it is the examiner's "unsupported conclusion that the motivation for these particular limitation would have been routine optimization. If this rejection is to be maintained, the applicants submit that the Examiner needs to present (I) evidence that 2'-O-

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methyl modified primers are suggested by the prior art and (ii) support for why those skilled in the art would have been motivated to make the *specifically claimed modifications*".

b. Applicant's arguments have been considered but are not persuasive. As stated above, applicant does not point to any structural requirements for a primer of the claimed invention, that the oligonucleotide of Van Gemen et al. does not fulfill. In other words, there is no difference between the modified oligonucleotide as taught by Van Gemen et al. and an oligonucleotide primer of the claimed invention, other than the use to which the modified oligonucleotide will be put. Something which is old does not become patentable upon the discovery of a new property. MPEP 2112. Furthermore, Van Gemen et al., at col. 7, lines 34-40, disclose modification of oligonucleotides on "a sufficient number of nucleotides . . . said modification preferably being present on all nucleotides of the oligonucleotide." Therefore there one of ordinary skill in the art would have been motivated to make regions of various lengths of modified oligonucleotides within oligonucleotides that would be indistinguishable from the primers of the claimed invention.

- 7. Claim 432 is rejected under 35 U.S.C. 103(a) as being unpatentable over Van Gemen et al., Patent No. 5,679,553 in view of Cruickshank, Patent No. 5091519.
- a. Applicant argues that "[a]s discussed above, Van Gemen does not disclose or suggest 2'-O-methyl modified primers and Cruishank has not been relied upon for satisfying this deficiency."

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b. Applicant's arguments have been considered but are not persuasive. As stated above there is no difference between a modified oligonucleotide as taught by Van Gemen et al. and the oligonucleotide primer of the claimed invention, other than the use to which the modified oligonucleotide will be put. Something which is old does not become patentable upon the discovery of a new property. MPEP 2112.

Conclusion

8. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to *Mark L. Shibuya (SRC)*, whose telephone number is (703) 308-9355, and/or to the patent analyst, *Katrina Turner*, whose telephone number is (703) 305-3413.
- 10. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, *John LeGuyader* may be reached at (703) 308-0447.
- 11. Any inquiry of a general nature or relating to the status of this application should be directed to the *Group receptionist* whose telephone number is (703) 308-0196.

Mark L. Shibuya Patent Examiner Technology Center 1600 June 16, 2001

ANDREW WANG